RESTRICTED CIRCULATION

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# Agricultural Memorandum No 786

## Swede Mildew - revised SMD estimates

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The analysis of Ag Mem 784 was repeated, taking into account the incomplete crop cover of May and June, the Potential Transpirations for these months being taken as 50% and 90% respectively. For weeks 34 to 43 the water balance was calculated weekly replacing the previous interpolation of monthly SMD estimates.

This analysis provides a better fit with the known disease incidence, if the critical index of 120 is amended to 110.

In the table below, column 1 for each station gives number of critical weeks and column 2 gives the accumulated total above 110.

| Year | Rothamsted | | Sprowston | | P. Wynne | | A. Bryan | | C. Park | | H. Mowthorpe | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| 1959 | 4 | 19 | 9 | 121 | 7 | 43 | 7 | 63 | 4 | 21 | 4 | 32 |
| 1961 | 2 | 22 | 3 | 15 | 4 | 16 | 1 | 5 | 0 | 0 | 0 | 0 |
| 1964 | 2 | 15 | 2 | 23 | 3 | 19 | 1 | 4 | 0 | 0 | 1 | 6 |
| 1957 | 2 | 4 | 1 | 0 | 2 | 11 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1967 | 1 | 0 | 6 | 26 | 6 | 18 | 0 | 0 | 0 | 0 | 0 | 0 |

All other 7 years gave zero values

Excess over 110 for all stations

| | | | |
|---|---|---|---|
| Severe Disease Years | 1959 | 299 | |
| | 1961 | 58 | |
| | 1964 | 67 | |
| Possible disease years | 1957 | 16 | |
| | 1967 | 44 | (mildew severe in S. Midlands) |

All other years have zero totals